SEP 2 5 2006

PTO/SB/08 Equivalent

INFORM DISCLOSURE STATEMENT BY APPLICANT

First Named Inventor Maher, et al.

Art Unit 1646

Examiner Pak, Michael D.

10/620,312

July 14, 2003

(Multiple sheets used when necessary)

SHEET 1 OF 1 Attorney Docket No. AUROBIO.026CP1

			U.S. PATENT	DOCUMENTS	
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

Application No.

Filing Date

			OREIGN PATE	NT DOCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹		
Чам		CONNOLLY, P. et al. An Extracellular Microelectrode for Monitoring Electrogenic Cells in Culture. Biosensors and Bioelectronics. 1990. 5:223-234.			
 					

2856347:082106/JJH

Examiner Signature MICHAGL PAIL

Date Considered 10 -6

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MAR 0 9 2006 INFORMATION DISCLOSURE STATEMENT APPLICANT

Application No.	10/620,312	
Filing Date	July 14, 2003	
First Named Inventor	Maher et al.	
Art Unit	1646	
Examiner	Michael D. Pak	
Attorney Docket No.	AUROBIO.026CP1	

(Multiple sheets used when necessary)
SHEET 1 OF 1

bu.s. Patent documents							
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear		
MPP		5,972,694	08-01-1995	Catterall et al.			
			<u> </u>				
				<u> </u>	1		

n Patent Document code-Number-Kind Code ole: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T¹
	-			

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	them (book magazina journal carial cumpacium catalog atc.) data paga(c) valuma-iscua		T ¹		
		·			
·					
			,		
		·			

2355842 020706

Examiner Signature MICHWEL 1941C Date Con

Date Considered 10-9-06

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application No. 10/620,312

Filing Date July 14, 2003

First Named Inventor Maher et al.

Art Unit 7743

Examiner Unassigned

Attorney Docket No. AUROBIO.026CP1

(Multiple sheets used when necessary)
SHEET 1 OF

	U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear			
	-							
				<u></u>				

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹	
				· · · · · · · · · · · · · · · · · · ·			
·		•		// / / / / / / / / / / / / / / / / / /	2		
			-		 		
	ł						

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹			
MDP	1	Tung et al., "Analysis of Electric Field Stimulation of Single Cardiac Muscle Cells", (1992) Biophysical Journal 63(2): 371-386.				
· 						
	-					

1849694 080405

Examiner Signature MCHAEL PAIL

Date Considered 1

10-9-06

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T1 - Place a check mark in this area when an English language Translation is attached.

D.	rn	/SF	3/08	ì F	aui	va	lan	4
_	w	<i>1</i> 3 E	3/ U (3 6	uu	va	it:II	ı

INFORMATION DISCLOSURE	•
STATEMENT BY APPLICANT	

Application No. 10/620,312

Filing Date July 14, 2003

First Named Inventor Maher et al.

Art Unit 1742

Examiner Unassigned

AUROBIO.026CP1

(Multiple sheets used when necessary) 2 7 2005 SHEET 1 OF 1

PATENT DOCUMENTS Pages, Columns, Lines Where **Document Number** Publication Date Cite Examiner Number - Kind Code (if known) Name of Patentee or Applicant Relevant Passages or Relevant MM-DD-YYYY Initials No. Figures Appear Example: 1,234,567 B1 10/1999 Mathus 5,972,694 MOP

ttorney Docket No.

	_		FOREIGN PATE	NT DOCUMENTS		
Examiner Cite No.		Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	-Number-Kind Code Date		Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T¹
	\vdash					

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т1
4dM	2	Denyer, J et al., "HTS Approaches to Voltage-Gated Ion Channel Drug Discovery Today", (1998) 3(7): 323-332.	
MOD	3	Brust-Mascher, I et al., "Calcium Waves Induced by Large Voltage Pulses in Fish Keratocytes", Biophysical Journal", (1998) 75(4): 1669-1678.	
, <u></u>			

1724790 052305

Examiner Signature MCMGL PIM Date Considered (0-11-06

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T1 - Place a check mark in this area when an English language Translation is attached.

S:\DOCS\TRA\TRA-2670.DOC 101404

EXAMINER	MICHAEL	PALL	DATE CONSIDERED	10-11-06

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

OIPE		SHEET 1 OF 1
FORM PTO-1500 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. AUROBIO.026CP1	APPLICATION NO. 10/620,312
BY APPLICANT	APPLICANT Maher et al.	
(USE SEVERAL SHEETS IF NECESSARY)	FILING DATE July 14, 2003	GROUP 1742

							
XAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE
MPP	1	4,695,547	9/22/1987	Hillard et al.	·		
	2	4,699,881	10/13/1987	Matschke			·-·-
	3	5,128,257	7/7/1992	Baer			
1	4	5,422,272	6/6/1995	Papp et al.			
MOP	5	6,352,853 B1	3/5/2002	King et al.			The second secon

	FOREIGN PATENT DOCUMENTS						
EXAMINER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL						YES	NO
			•				

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
		•
	\dashv	
	_	

S:\DOCS\TRA\TRA-2311.DOC 090704

EXAMINER	MICHAEL	PAK	DATE CONSIDERED	10-11-06

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

0	P F FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE OF	ATTY, DOCKET NO. AUROBIO.026CP1	APPLICATION NO. 10/620,312
APR	1 9. 2004 u BY APPLICANT	APPLICANT Maher et al.	
ν.	OF (USE SEVERAL SHEETS IF NECESSARY)	FILING DATE July 14, 2003	GROUP 1646

	U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
UDP_	1	. 4,801,543	1/31/1989	Arnoid et al.			
1	2	5,194,133	3/16/1993	Clark et al.			
V	3	5,643,742	7/1/1997	Malin et al.			
MOP	4	6,376,233	4/23/2002	Wolf et al.			
			·				
	ŀ						
						<u> </u>	
	П						

	FOREIGN PATENT DOCUMENTS						
EXAMINER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
INITIAL			•			YES	NO
					٠		

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
MOP	5	Jacobs et al., "Control of Action Potential-Induced Ca ^{2*} Signaling in the Soma of Hippocampal Neurons by Ca ²⁺ Release from Intracellular Stores", (1997) Journal of Neuroscience 17(11):4129-4135.
MOP	6	Reiner et al., "Use of a Membrane Potential –Sensitive Probe to Assess Biological Expression of the Cystic Fibrosis Transmembrane Conductance Regulator" (1995) Human Gene Therapy 6:1275-1283.
mpp	7	Sinha et al., "Simultaneous Optical Recording of Evoked and Spontaneous Transients of Membrane Potential and Intracellular Calium Concentration with High Spatio-Temporal Resolution" (1995) Journal of Neuroscience Methods 60:49-60
		·

EXAMINER	MICHAEL	PIAL	DATE CONSIDERED	10-11-06
		CONSIDERED, WHETHER OR NOT CITATION I SIDERED, INCLUDE COPY OF THIS FORM WIT		H MPEP 609; DRAW LINE THROUGH CITATION IF NOT.

			SHEET 1 OF 3
S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. AUROBIO.026CP1	APPLICATION NO. 10/820,312	
LOSURE STATEMENT	<u>-</u>		
PLICANT	APPLICANT Maher, et al.		
EETS IF NECESSARY)	EII ING DATE	CROUP	

U.S. PATENT DOCUMENTS EXAMINER **DOCUMENT NUMBER** DATE NAME CLASS SUBCLASS FILING DATE INITIAL (IF APPROPRIATE) 4,072,578 2/7/78 Cady, et al. MDP 2 4,514,500 4/30/85 Giaever, et al. 3 4,461,304 7/24/84 Kuperstein 4,628,933 12/16/88 Michelson 5 4,677,989 7/7/87 Robblee 6 4,969,468 11/13/90 Byers, et al. 5,024,233 6/18/91 Chow 8 5,178,161 1/12/93 Kovacs 9 5,187,096 2/16/93 Giaever, et al. 10 5,405,367 4/11/95 Schulman, et al. 11 5,432,086 7/11/95 Fränzl, et al. 12 5,439,440 8/8/95 Hofmann 13 5,545,130 8/13/96 Hofmann, et al. 14 5,563,067 10/8/96 Sugihara, et al. 15 5,571,158 11/5/96 Bolz, et al. 16 5,810,725 9/22/98 Sugihara, et al. 17 5,855,801 1/5/99 Lin, et al. 18 5,935,155 8/10/99 Humayun, et al. 19 5,957,958 9/28/99 Schulman, et al. 20 5,965,452 10/12/99 Kovacs 21 5,981,268 11/9/99 Kovacs, et al. 22 6,008,038 12/28/99 Kröger, et al. 23 6,009,347 12/28/99 Hofmann 24 6,024,702 2/15/00 Iversen 25 6,031,711 2/29/00 Tennent, et al. 26 6,038,478 3/14/00 Yuen, et al. 27 6,046,002 4/4/00 Davis,et al.

July 14, 2003

FORM PTO-1449

1 4 2003

& Trust

U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

EXAMINER	MICHAEL PAIC	DATE CONSIDERED	10-11-06
*EXAMINER:	: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS	IN CONFORMANCE WI'	TH MPEP 609; DRAW LINE THROUGH CITATION IF NOT
IN CONFORM	WANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH		ON TO APPLICANT.

		SHEET	2 OF 3
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. AUROBIO.026CP1	APPLICATION NO. 10/620,312	
DISCLOSURE STATEMENT		· ·	- 1
Y APPLICANT	APPLICANT Maher, et al.		
L SHEETS IF NECESSARY)	FILING DATE July 14, 2003	GROUP 1646	

•				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MOP	28	6,051,422	4/18/00	Kovacs, et al.			
MP	29	6,083,260	5/16/00	Olesen, et al.			
. \	30	6,099,960	8/8/00	Tennent, et al.			
MAP	31	6,205,016	3/20/01	Niu			

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

FOREIGN PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSLATION	
111111111111111111111111111111111111111							4	YES	NO
pop	32	WO97/05922	2/20/97	PCT	,				
1	33	WO00/25121	5/4/00	PCT					
. (34	WO00/68686	11/16/00	PCT					
V	35	1 067 378 A1	1/10/01	EPO					
MPP	36	96/41166	12/19/96	PCT					

EXAMINER INITIAL		OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)					
nop	37	Amdts, Oral Presentation Abstract, Second International Cell Analysis Products Users Meeting in Hilton Head Island, South Carolina, USA (June 3-1998).					
1	38	Barr and Plonsey, Biophys. J. 61, 1164-1175 (1992).					
	39	Barr and Plonsey, IEEE 42, 1185-11911 (1995).					
. (40	Cartee and Plonsey, Med & Biol. Eng. & Comp. 30 389-398 (1992).					
	41	Cartee and Plonsey, IEEE 39, 76-85 (1992).					
	42	Eppich et al., Nature Biotech. 18, 882-887 (2000).					
	43	González, J.E., et al., "Cell-based assays and instrumentation for screening ion-channel targets", Drug Discover Today, Vol. 4, No. 9, pp. 431-439, (September 1999).					
	44	González, J.E., et al., "Voltage sensing by fluorescence resonance energy transfer in single cells", Biophysical Journal, Vol. 69, No. 4, pp. 1272-1280, (October 1995).					
	45	Giuliano, K.A., et al., "Fluorescent-protein biosensors: new tools for drug discovery", Trends In Biotechnology", Vol. 16, No. 3, pp. 135-140, (March 1998).					
	46	Greenberg, et al. IEEE 46, 505-514 (1999).					
	47	Gross, et al. Biophys. J. 50, 339-348 (1988).					
7	48	Jentsch and Günther, BioEssays 19, 117-126 (1997).					
MOP	49	Klee and Plonsey, Biophys. J. 12 1661-1675 (1972).					

EXAMINER	MICHAEL	PAK	DATE CONSIDERED	10-11-06
*EXAMINER: III	NITIAL IF CITATION COL	NSIDERED, WHETHER OR NOT CITATION IS	S IN CONFORMANCE WITH	H MPEP 609; DRAW LINE THROUGH CITATION IF NOT
	NCE AND NOT CONSID	DERED, INCLUDE COPY OF THIS FORM WIT	H NEXT COMMUNICATION	N TO APPLICANT.

	·	SHEET 3 OF 3
FORMETO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. AUROBIO.026CP1	APPLICATION NO. 10/620,312
BY APPLICANT THAT THE SEVERAL SHEETS IS NECESSARY)	APPLICANT Maher, et al.	
(USE SEVERAL SHEETS IF NECESSARY)	FILING DATE July 14, 2003	GROUP 1646

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
MOP	50	Klee and Plonsey, IEEE 23, 347-354 (1976).						
1	51	Mitchell et al., J. Biomed. Eng. 14, 52-56 (1992).						
	52	Plonsey, Med & Biol. Eng. & Comput. 19 311-315 (1981).						
	53	Plansey, Med. & Biol. Eng. & Comput. 33 337-340 (1995).						
•	54	Plonsey and Barr, IEEE 42 329-336 (1995).						
	55	Plonsey and Barr, IEEE 9/10 130-137 (1998.)						
	56	Rattay, Neuroscience 89 335-346 (1999).						
	57	Roth, Critical Reviews in Biomed. Eng. 22 263-305 (1994).						
	58	Rowell, Biophotonics Int. 12 25-26 (2000).						
	59	Schmidt et al., Proc Natl. Acad. Sci. USA 94 8948-8953 (1997).						
	60	Stone et al., J. Cardiovascular Electrophysiology 10 92-107 (1999).						
	61	81 Svirskis et al., American Phys. Soc. 0022-3077 579-586 (1997).						
	62	Tung and Borderies, Biophys. J. 63 371-386 (1992).						
V	63	Tung et al., Circulation Research 69 722-730 (1991).						
nop	64	Zhou, et al., Circulation Research 83 1003-1014 (1998).						

S:\DOCS\ETA\ETA-1773.DOC 082703

EXAMINER MICHAEL PAK

DATE CONSIDERED 10 -

10-11-06